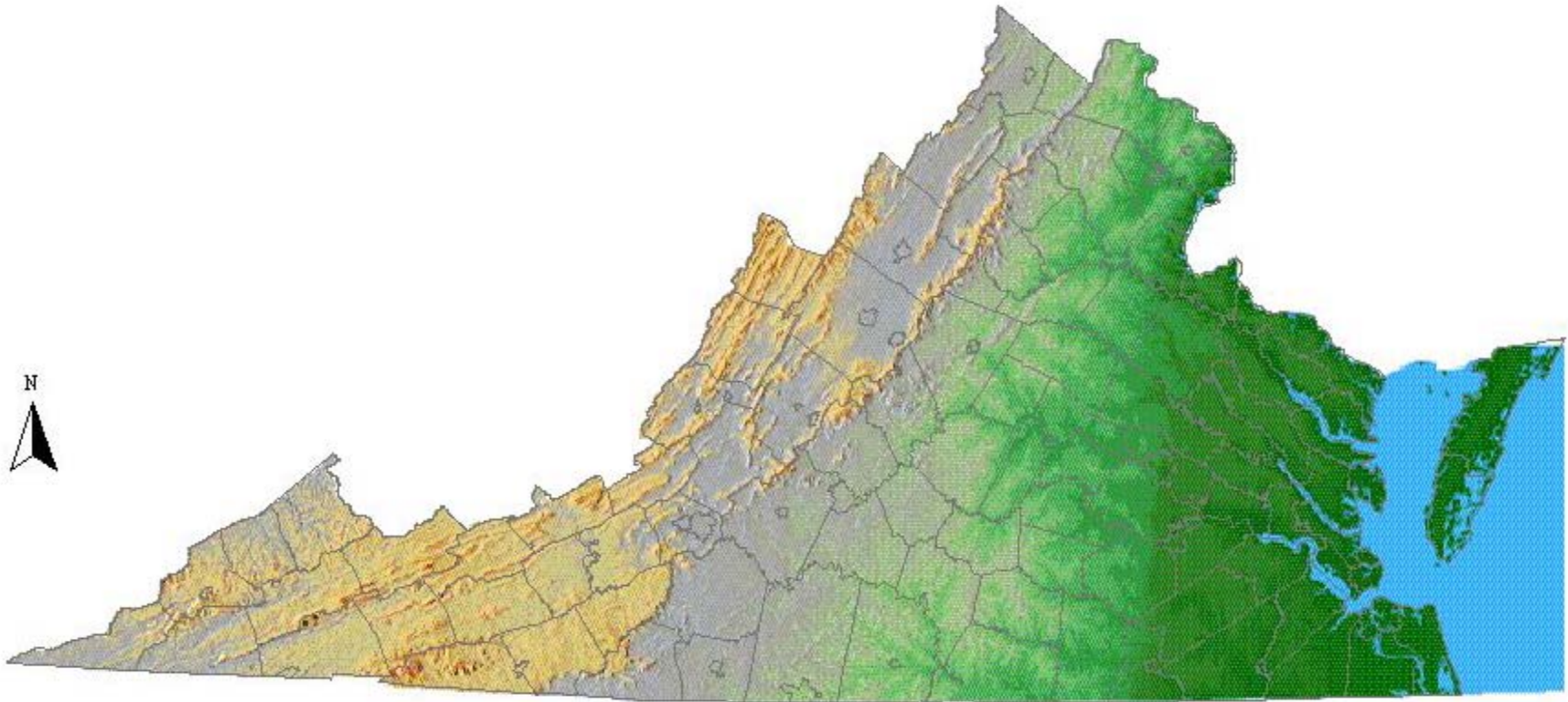


Virginia Base Mapping Program (VBMP)

Virginia E-911 Wireless Services Board




Virginia Geographic Information Network (VGIN)

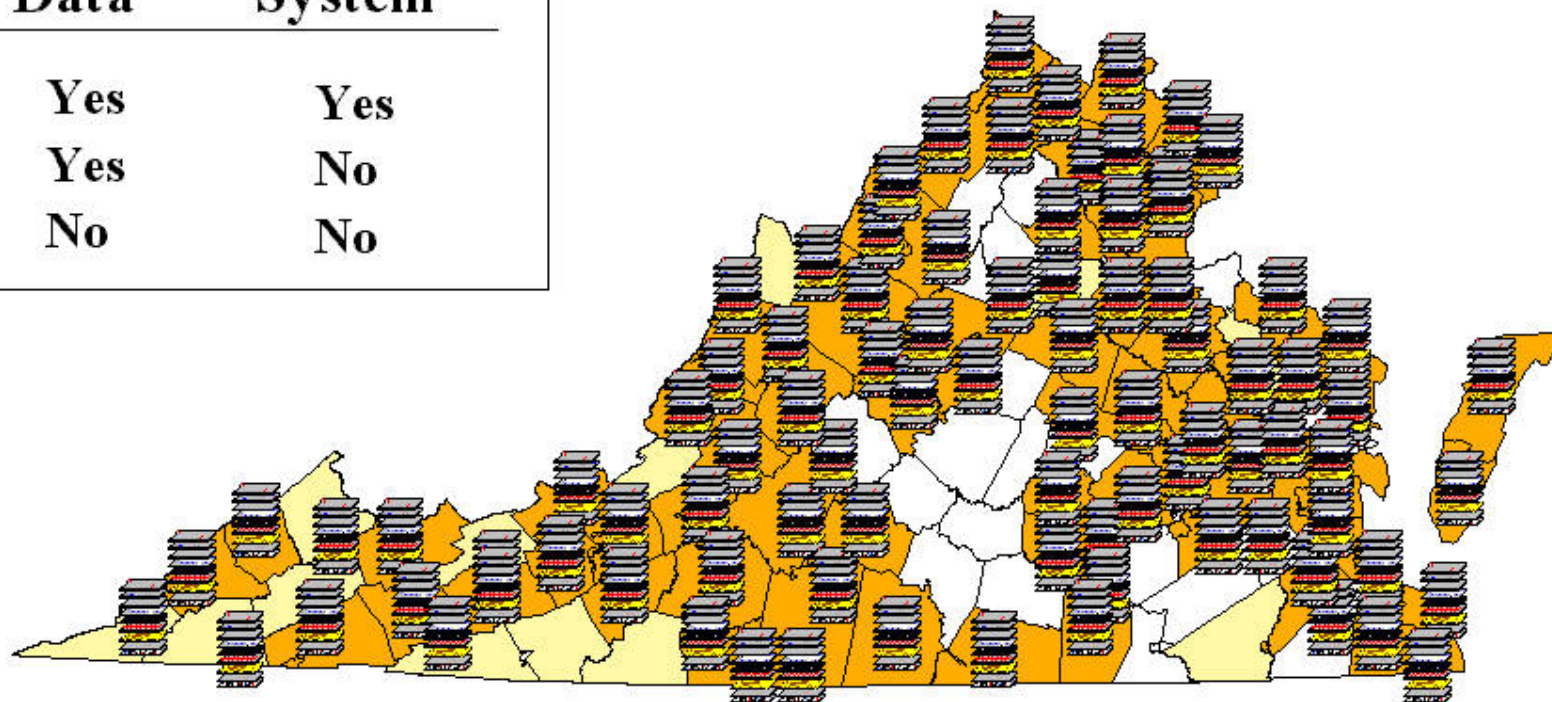
Virginia Geographic Information Network Advisory Board



Status of Digital Geographic Data Use

Digital Data	In-House System
--------------	-----------------

	Yes	Yes
	Yes	No
	No	No

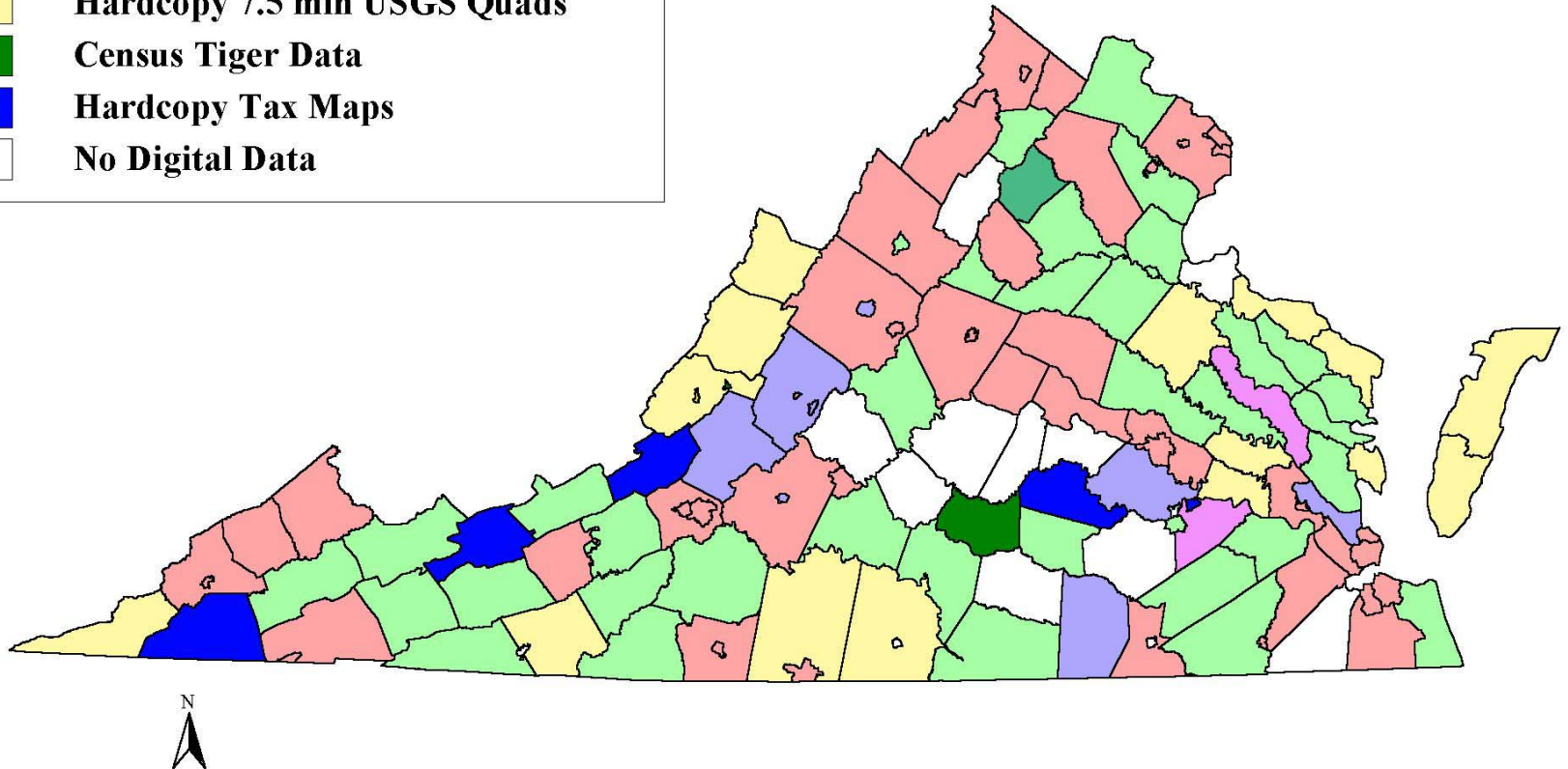
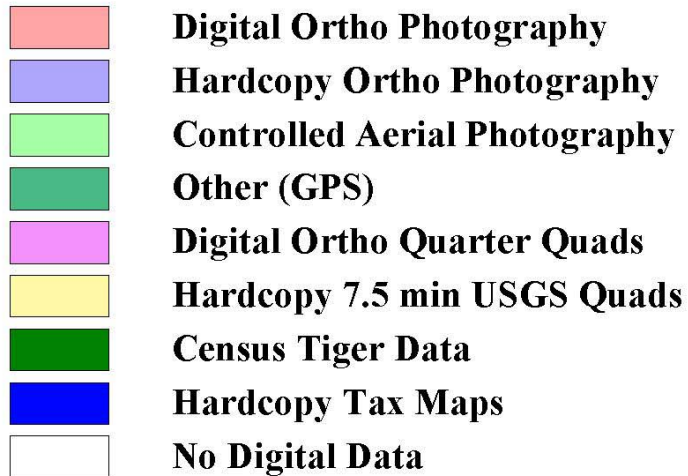


50 0 50 100 Miles

The Virginia Geographic Information Network
[Http://www.vgin.state.va.us](http://www.vgin.state.va.us)

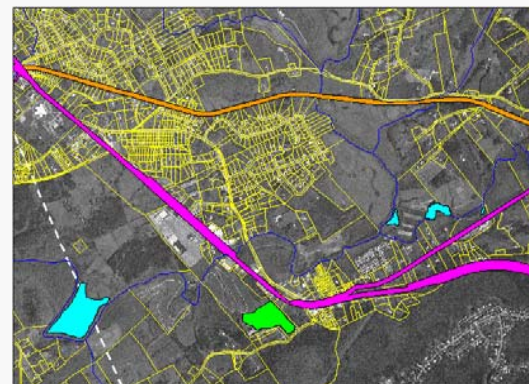
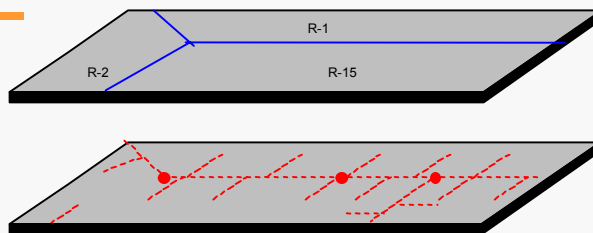


Base Map Data Source 2001

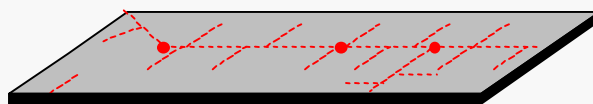


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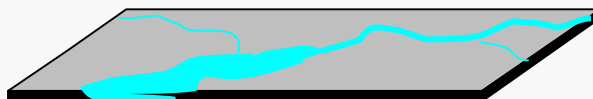
Planimetrics & Cadastre



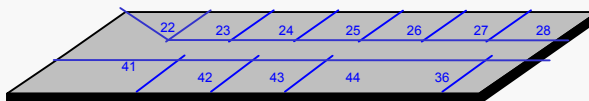
Critical E-911 Data



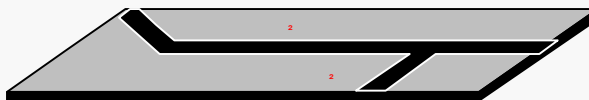
Hydrography



Addresses – E 911

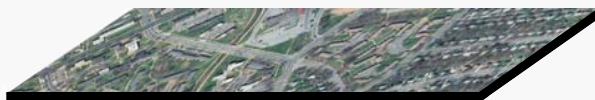


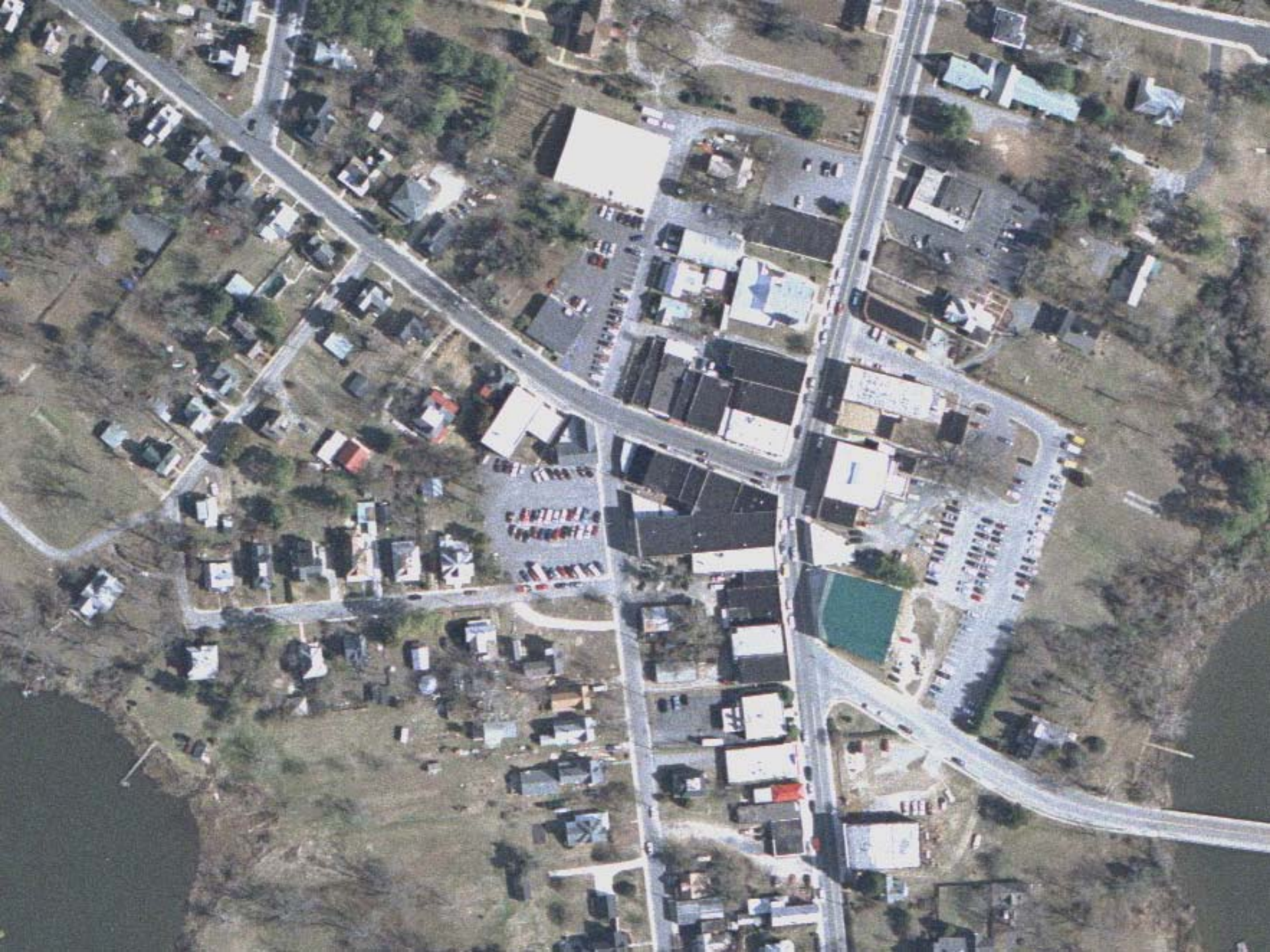
VDOT Street Centerline



Digital Orthophoto Base

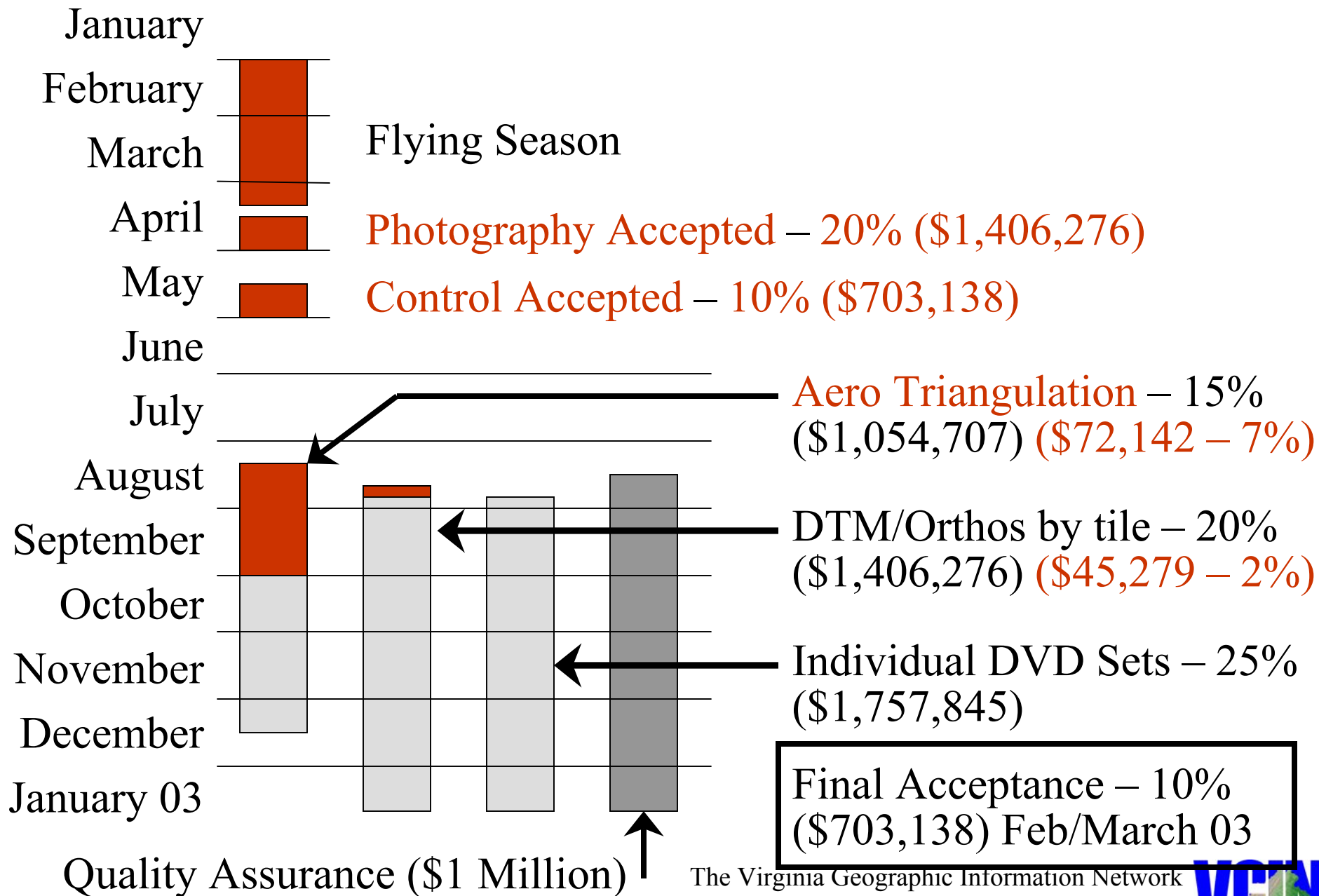
Digital Orthophotography Base Imagery





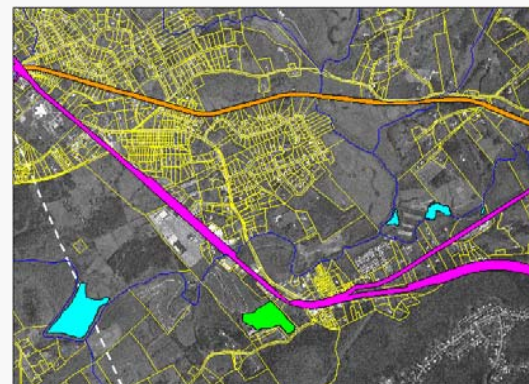
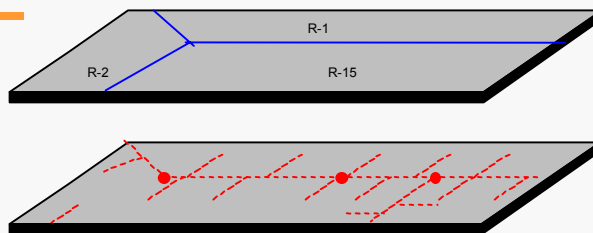


VBMP DO Acquisition Deliverable and Payment Schedule

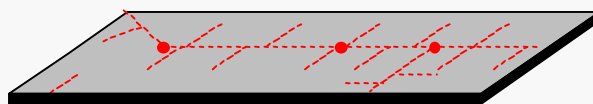


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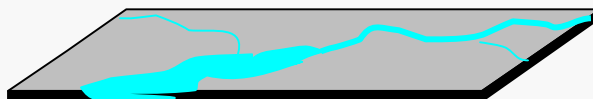
Planimetrics & Cadastre



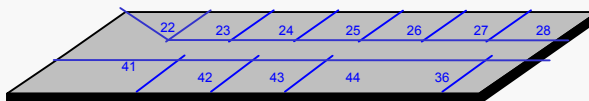
Critical E-911 Data



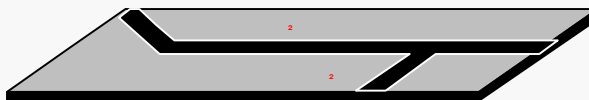
Hydrography



Addresses – E 911

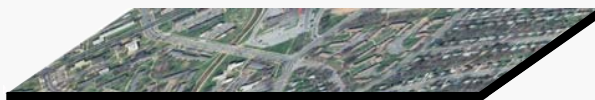


VDOT Street Centerline



Digital Orthophoto Base

Digital Orthophotography Base Imagery



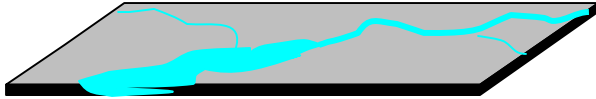


Hydrography

- Streams and Rivers
- Lakes and Ponds
- Canals and Ditches
- Swamps and Marshes
- Shorelines
- Bridges
- Dams and Spillways
- Headwall/Culvert
- Fully integrated with the VBMP digital orthophotography
- +/- **9.8 ft.** for $\frac{3}{4}$ of the Commonwealth (1:4800)
- +/- **5 ft.** for $\frac{1}{4}$ of the Commonwealth (1:2400)
- +/- **2.4 ft.** for optioned jurisdictions (1:1200)







Hydrography

Potential Cost Issues

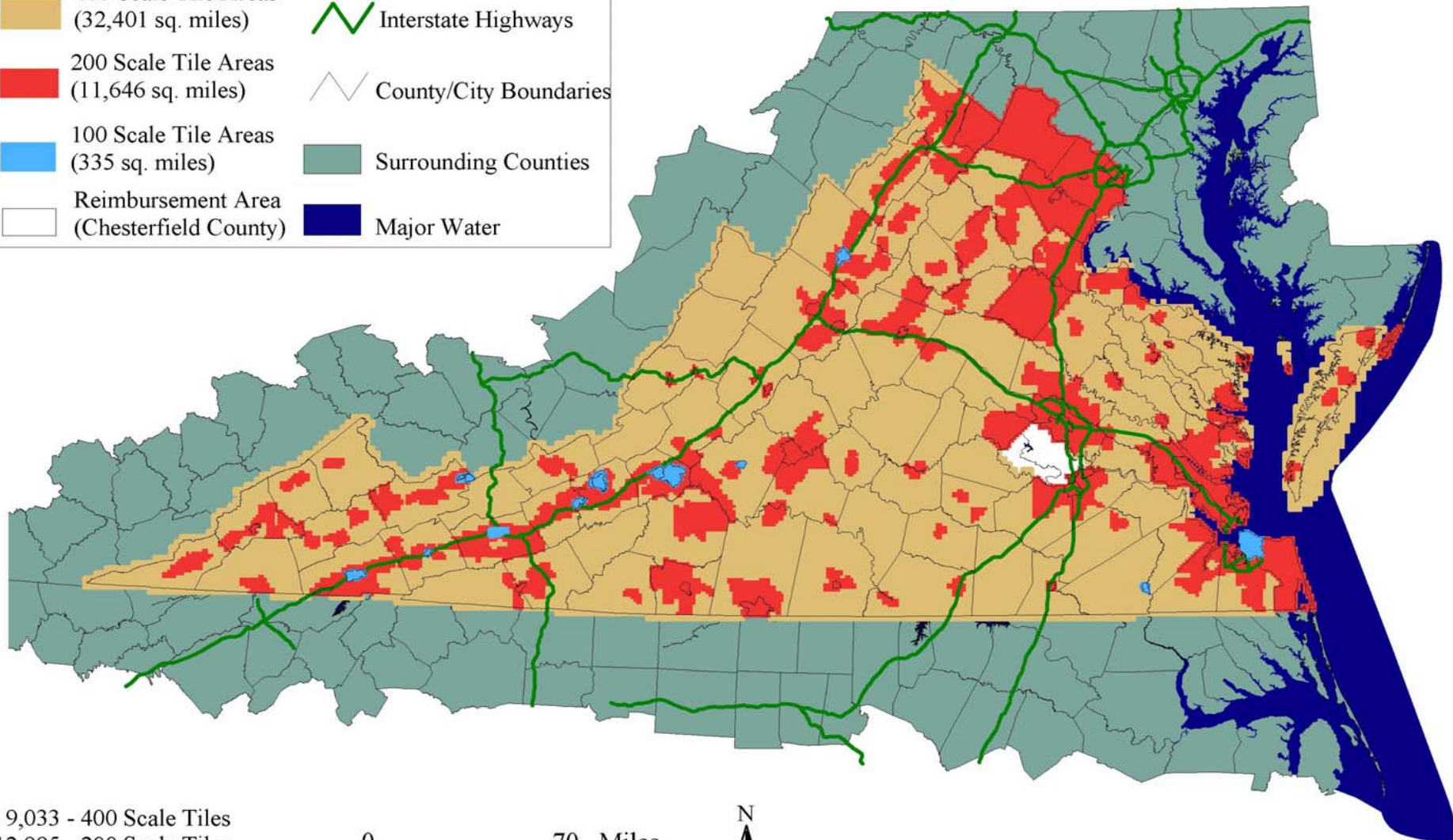
- Continuous Line Work (flow)
- Attribution to National Hydrological Database Standards

Potential Partnership Solutions

- U.S. Geological Survey (USGS) – Friday 8/30
- Federal Emergency Management Agency (FEMA)
- National Oceanic Atmospheric Administration (NOAA)
- Virginia Department of Conservation and Recreation (DCR)

Virginia Base Mapping Tile Assignment

DIGITAL ORTHO. SPECIFICATIONS



9,033 - 400 Scale Tiles
12,995 - 200 Scale Tiles
1,508 - 100 Scale Tiles

0 70 Miles









Road Centerlines

Issues where VDOT Road Centerlines are used:

- Correcting off-pavement linework
- Complete/standardize attribution
- Complete Topology

Issues where Local Government Centerlines are used or needed

- Complete and standardize attribution
- Edgematch centerlines
- Update procedures and schedule
- Checking Topology standards

Potential Partnership Solutions

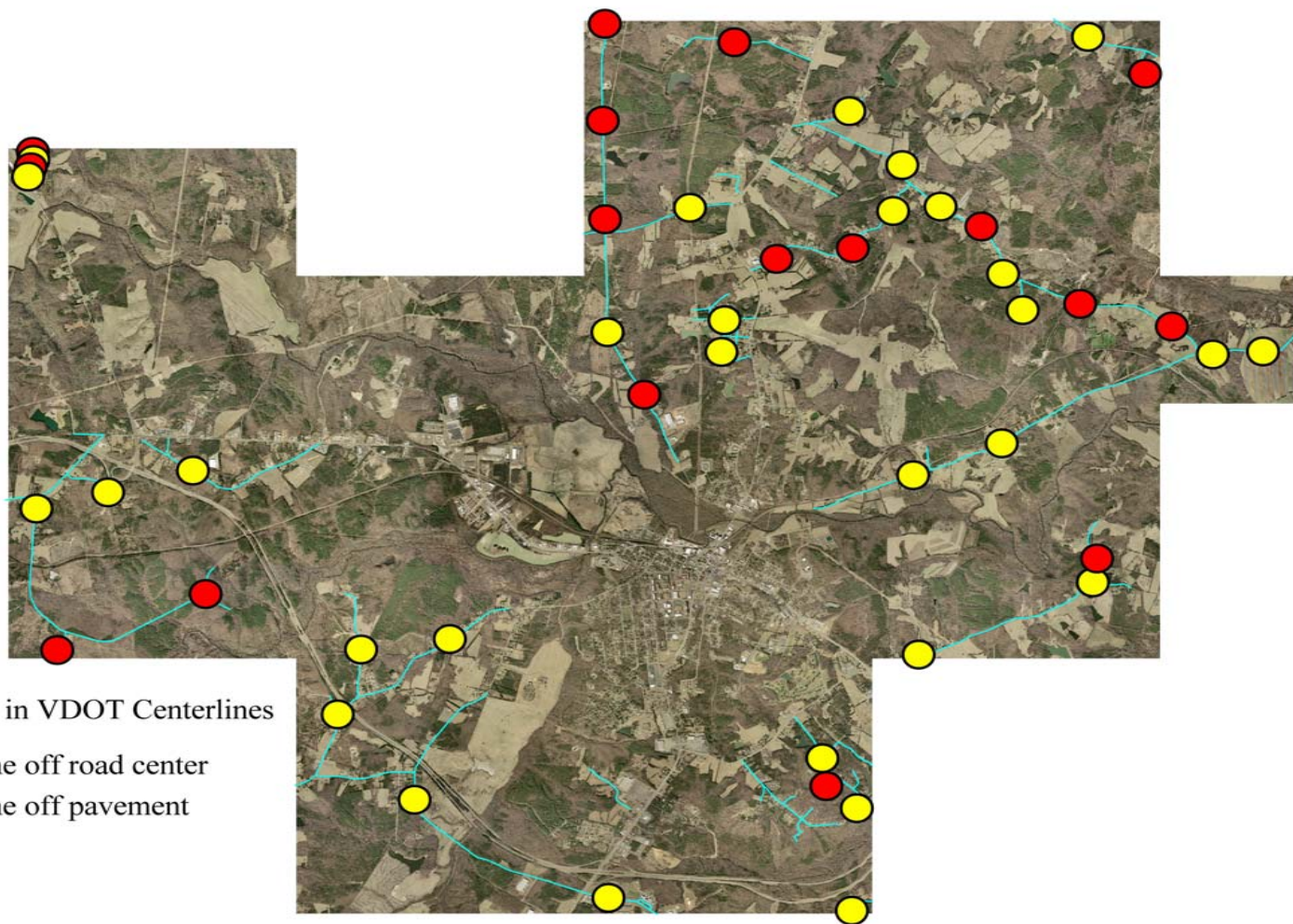
- Virginia Department of Transportation (VDOT)
- U.S. Census (TIGER file modernization)







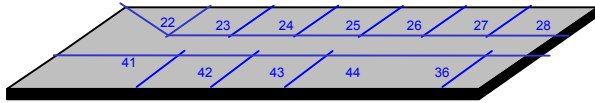
VBMP Farmville Pilot Area Photography with VDOT Centerlines



Potential Error in VDOT Centerlines

- Centerline off road center
- Centerline off pavement

1 0 1 2 Miles



Local Government Addressing

Research Process:

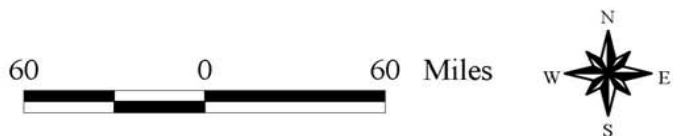
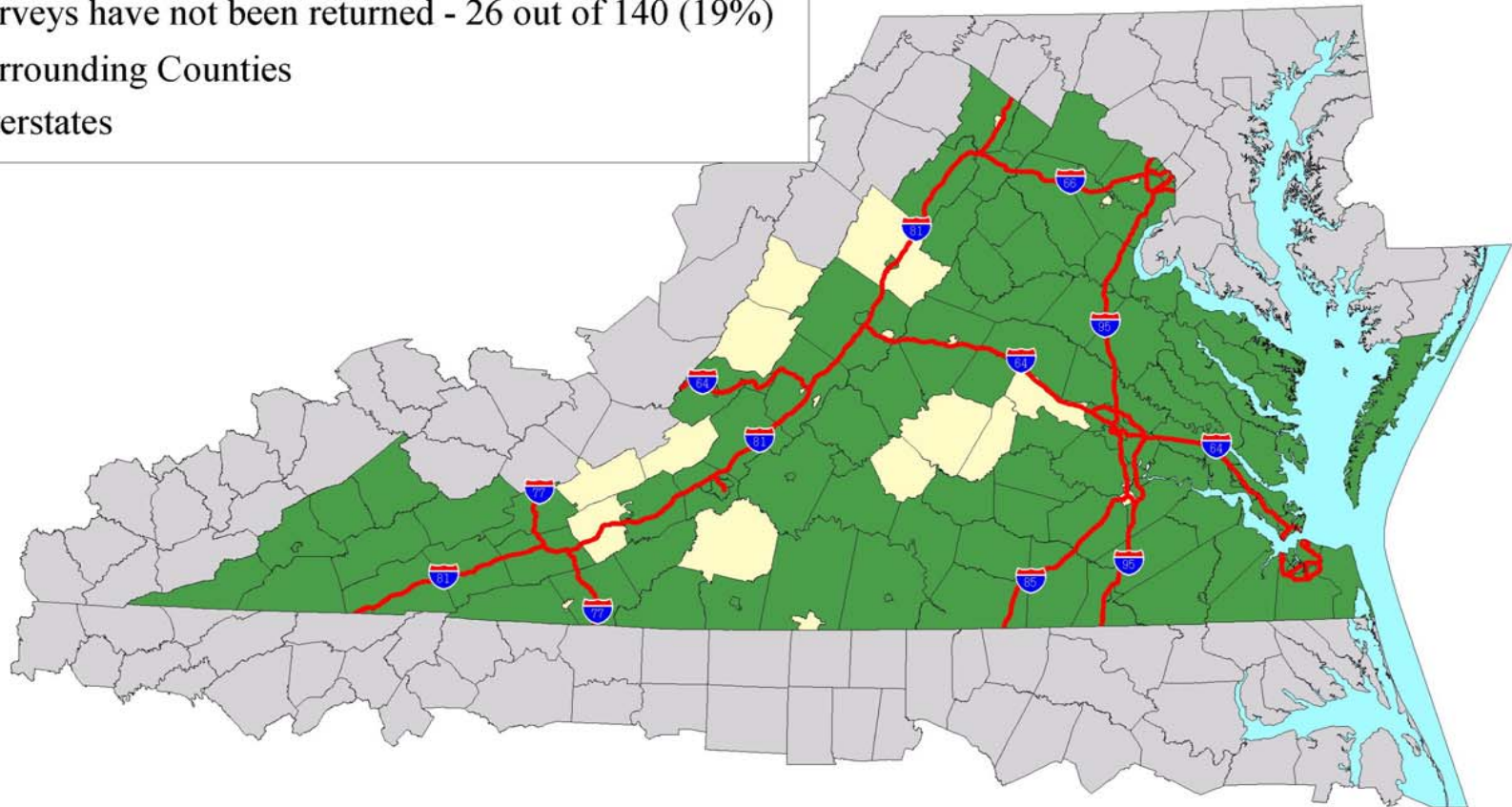
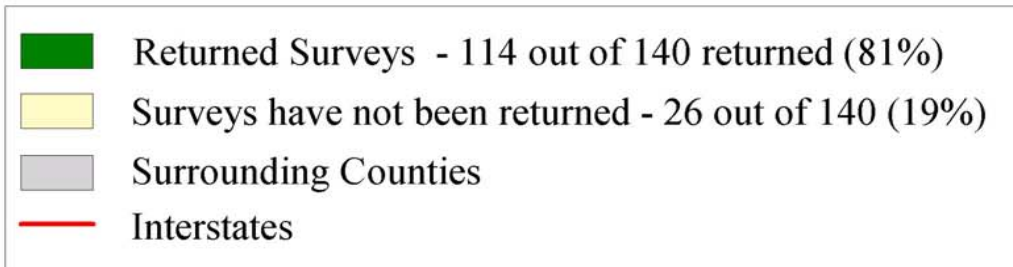
- Identify the addressing landscape across the Commonwealth
- Determine the various addressing methodologies in use
- Evaluate published addressing standards
- Identify potential options for integrating the various local jurisdiction addressing methodologies into the statewide base map
- Determine any costs required to complete the integration
- Determine maintenance/update options and solution

Potential Partnership Solutions

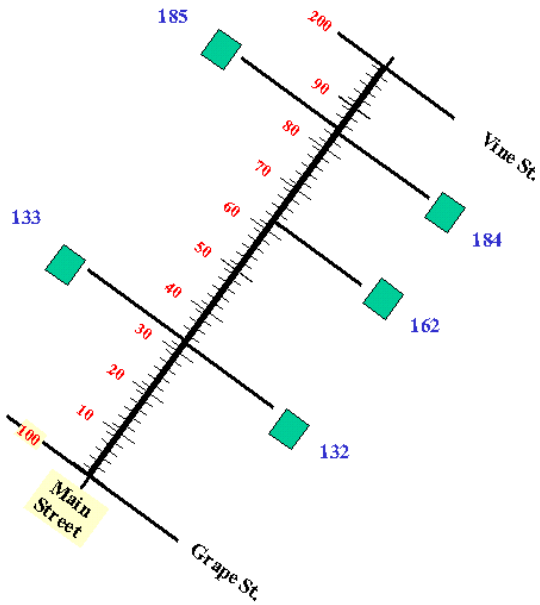
- U.S. Census (TIGER file modernization)

VGIN Addressing Survey

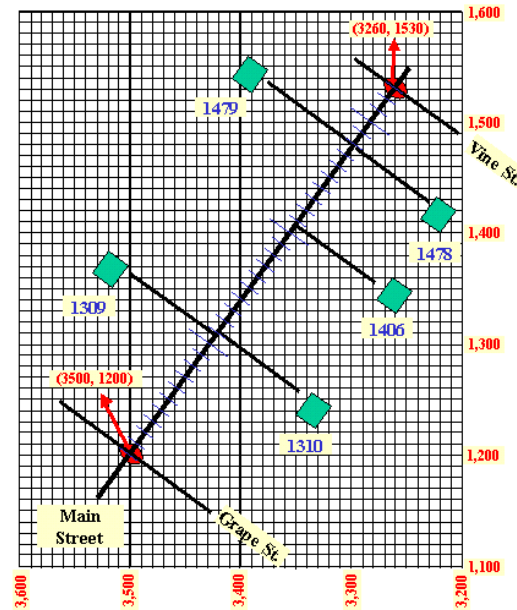
Survey Status 8/23/02



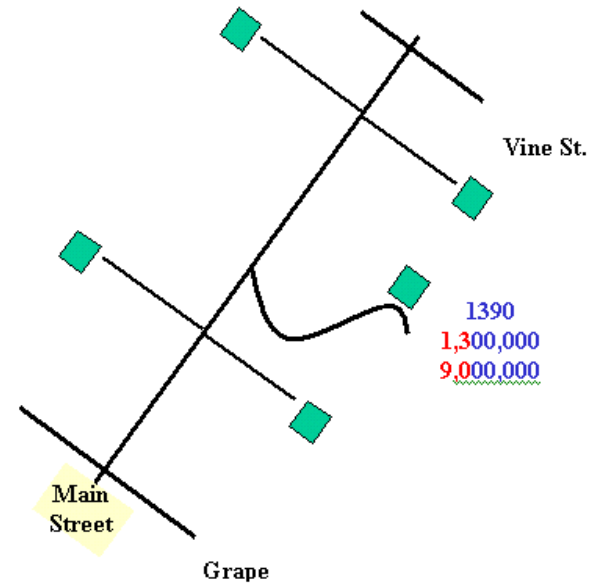
Linear - Based



Grid - Based



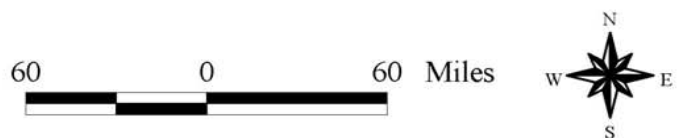
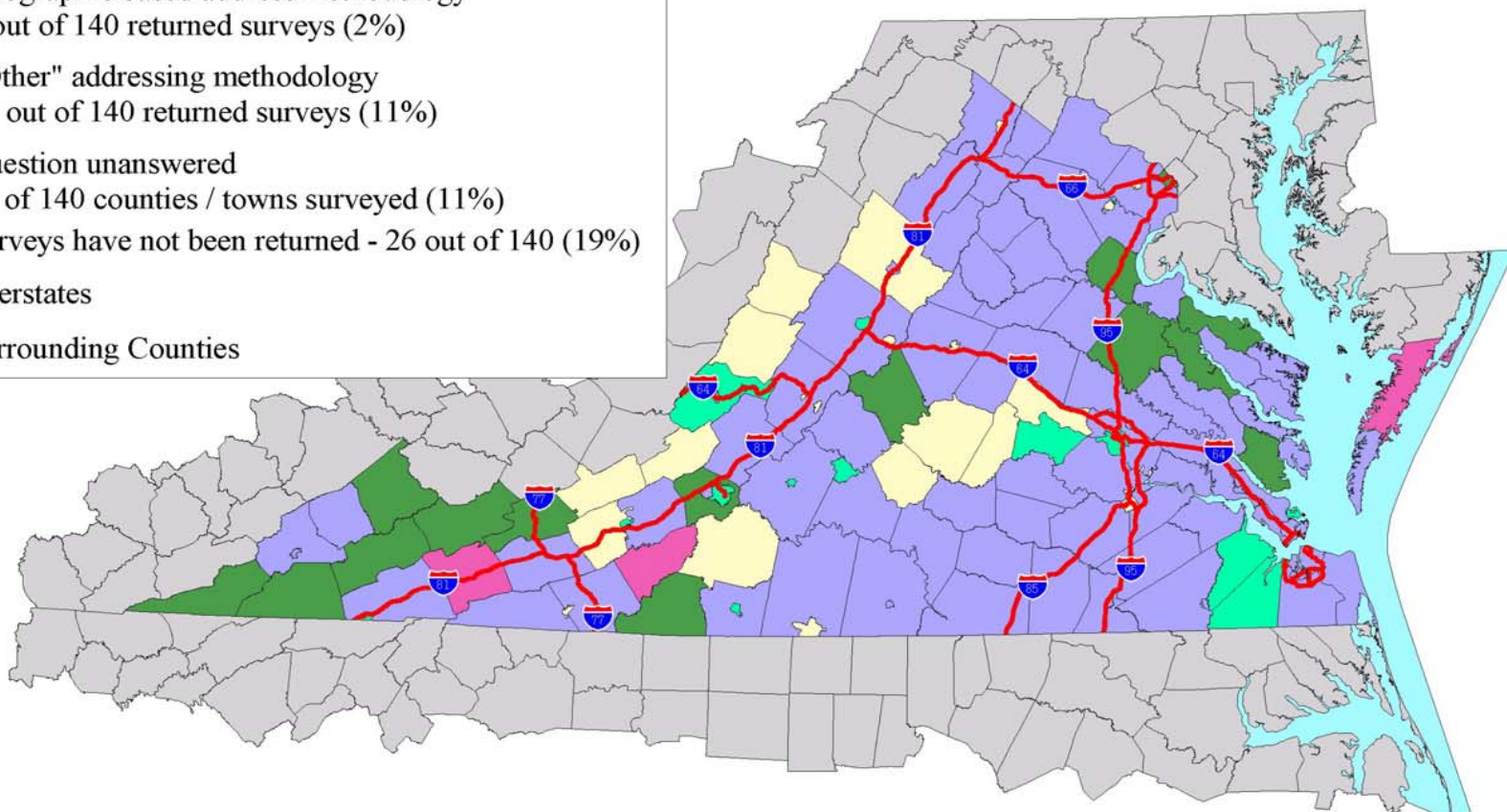
Geographic - Based



VGIN Addressing Survey

Linear and Grid Based Addressing 8/23/02

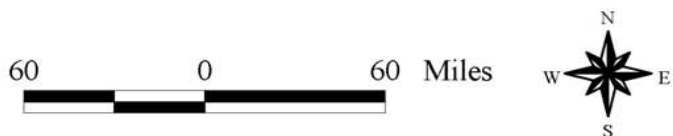
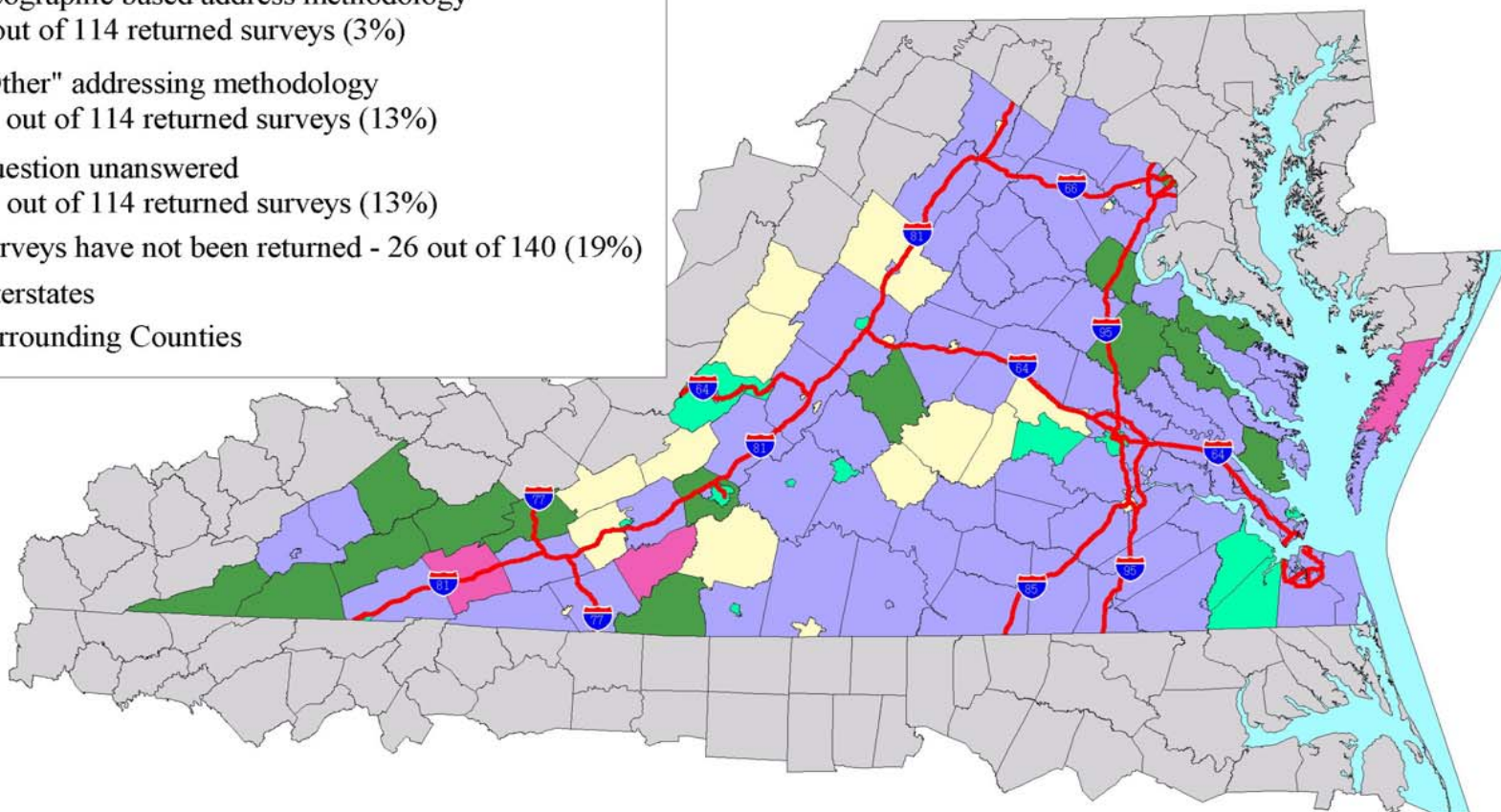
- Linear and Grid based addressing methodology:
81 out of 140 counties / towns surveyed (57%)
- Geographic based address methodology
3 out of 140 returned surveys (2%)
- "Other" addressing methodology
15 out of 140 returned surveys (11%)
- Question unanswered
15 of 140 counties / towns surveyed (11%)
- Surveys have not been returned - 26 out of 140 (19%)
- Interstates
- Surrounding Counties



VGIN Addressing Survey

Linear and Grid Based Addressing 8/23/02

- Linear and Grid based addressing methodology:
81 out of 114 returned surveys (71%)
- Geographic based address methodology
3 out of 114 returned surveys (3%)
- "Other" addressing methodology
15 out of 114 returned surveys (13%)
- Question unanswered
15 out of 114 returned surveys (13%)
- Surveys have not been returned - 26 out of 140 (19%)
- Interstates
- Surrounding Counties

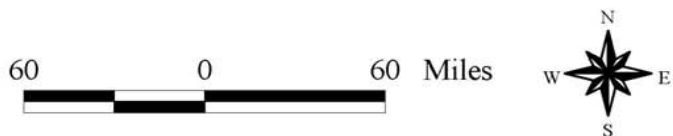
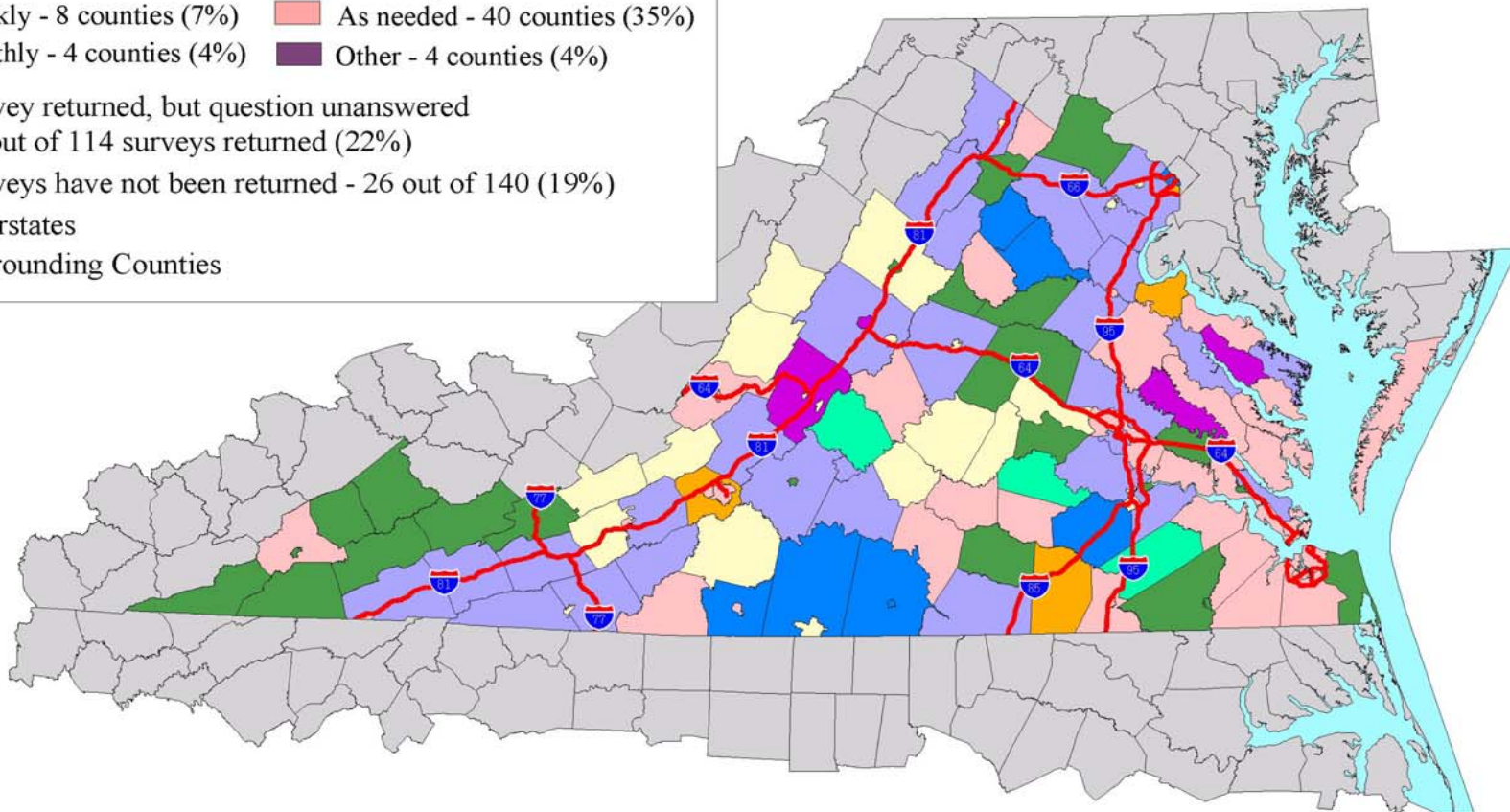


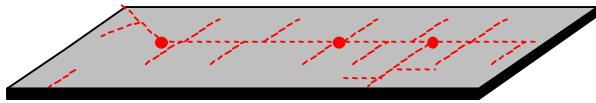
VGIN Addressing Survey

Address Database Updated 8/23/02

Address Database Updated (% out of 114 returned surveys)

- | | |
|--|---------------------------------|
| ■ Daily - 30 counties (26%) | ■ Quarterly - 3 counties (3%) |
| ■ Weekly - 8 counties (7%) | ■ As needed - 40 counties (35%) |
| ■ Monthly - 4 counties (4%) | ■ Other - 4 counties (4%) |
| ■ Survey returned, but question unanswered
25 out of 114 surveys returned (22%) | |
| ■ Surveys have not been returned - 26 out of 140 (19%) | |
| — Interstates | |
| ■ Surrounding Counties | |

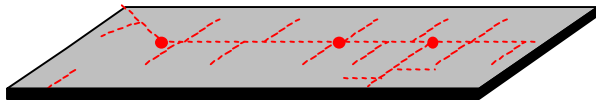




Critical E-911 Data

Working Committee:

- Terry Hall – York County
- Jim McDonnell, John Boyes – Chesterfield County
- Craig Allen – Arlington
- Mark Cvetnich – Dickenson County
- Bob Nibarger, Phil Baker, Jules Robichaud – Virginia Beach
- Joyce Salmon – Henrico County
- Gerald Smith – Charlottesville
- Spencer Suter – Botetourt County
- George Roarity – Department of Emergency Management
- Bill Shinar, Bob Rike, Matt Blaes - VGIN



Critical E-911 Data

Research Process:

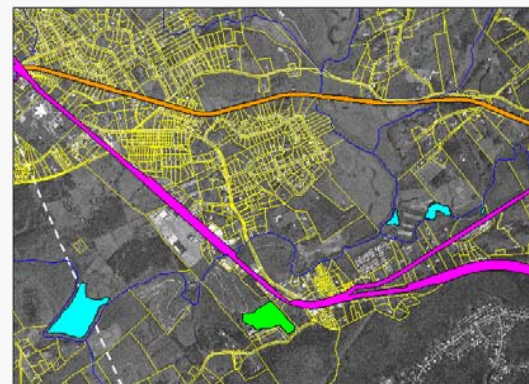
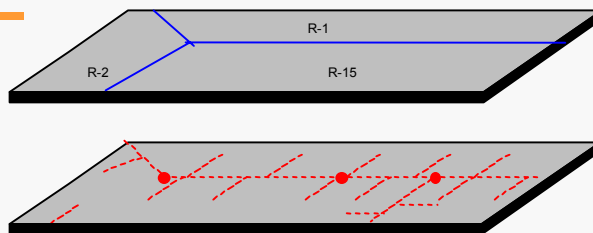
- Identify all potential data needs
- Establish priorities across all needs
- Establish priorities for Wireless E-911
- Determine data specification requirements (accuracy, attribution, currency)
- Identify potential acquisition partners
- Identify acquisition methodologies
- Determine maintenance/update methodologies
- Identify costs

Potential Data Acquisition/Sharing Partners

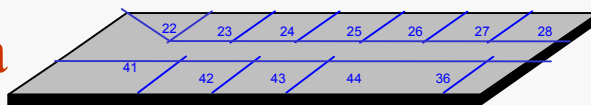
- Department of Emergency Management (DEM)
- Federal Government and Military

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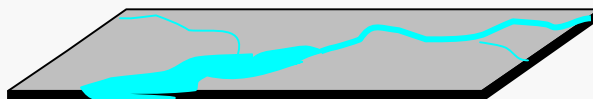
Planimetrics & Cadastre



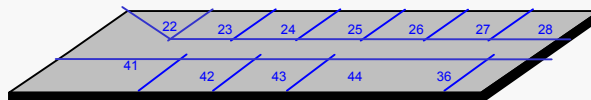
Critical E-911 Data



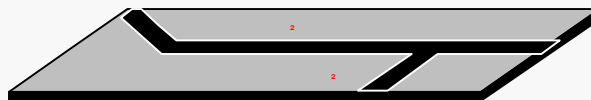
Hydrography



Addresses – E 911

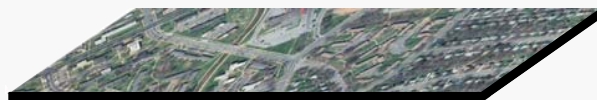


VDOT Street Centerline



Digital Orthophoto Base

Digital Orthophotography Base Imagery

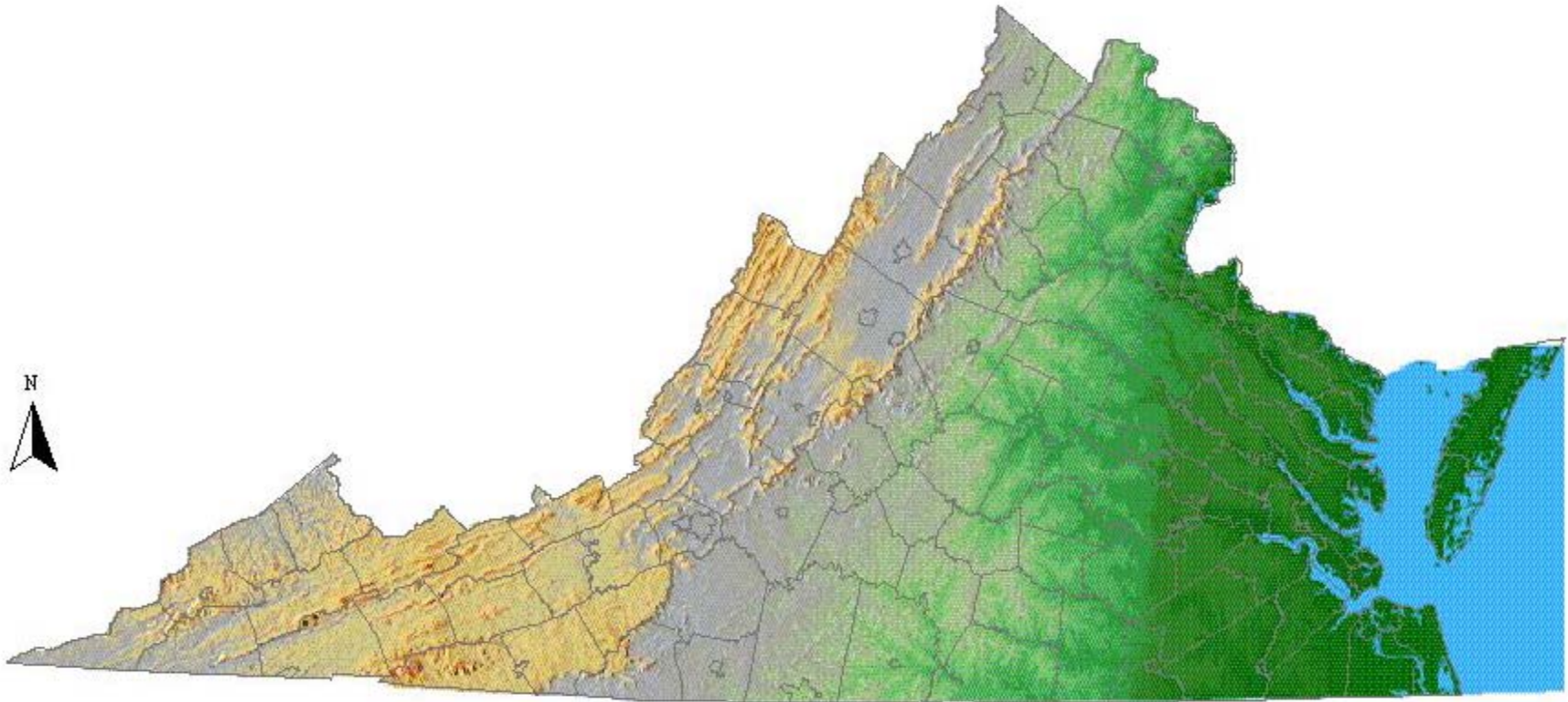


Virginia Base Mapping Program (VBMP)

Virginia E-911 Wireless Services Board

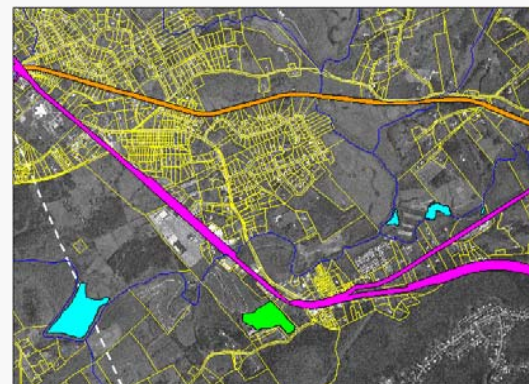
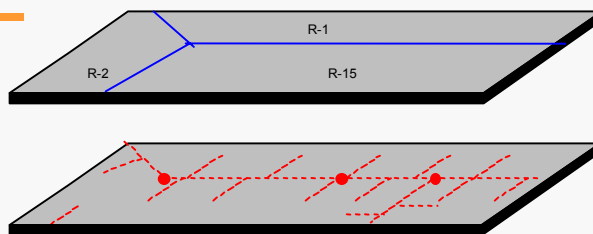
Virginia Geographic Information Network (VGIN)

Virginia Geographic Information Network Advisory Board

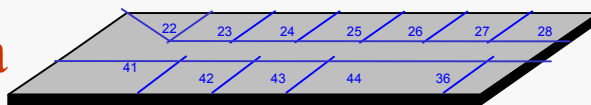


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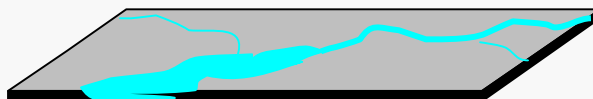
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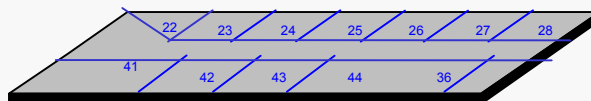
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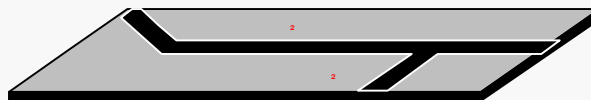
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Addresses – E 911



VDOT Street Centerline



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Digital Orthophotography Base Imagery

